CLAIMS

Therefore, the following is claimed:

- 1 1. A system for attenuating leakage signals in a communication system,
- 2 comprising;
- a plurality of amplifiers coupled between a plurality of communication
- 4 connections and a communication device, at least one of said plurality of amplifiers
- 5 configured to have a nearly-zero impedance characteristic such that at least one leakage
- 6 signal originating on a first communication connection of said plurality of
- 7 communication connections cannot propagate from said first communication connection
- 8 to a second communication connection of said plurality of communication connections.
- 1 2. The system of claim 1, wherein at least one of said plurality of amplifiers
- 2 is configured as a negative feedback amplifier.
- 1 3. The system of claim 1, further comprising a second plurality of amplifiers,
- 2 said second plurality of amplifiers coupled between a second plurality of communication
- 3 connections and said communication device.
- 1 4. The system of claim 1, wherein at least one of said plurality of
- 2 communications connections is a digital subscriber loop.

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1	5. A method for shunting leakage signals in a communication system, the
2	method comprising the steps of:
3	coupling at least one amplifier between a first communication connection and a
4	communication device, said amplifier having a nearly-zero impedance characteristic; and
5	shunting at least one leakage signal originating on said first communication
6	connection away from a second communication connection coupled to said
7	communication device.

- 6. A system for shunting leakage signals in a communication system, comprising:
- 3 means for shunting, said means for shunting having a nearly-zero impedance 4 characteristic; and
 - means for coupling said shunting means to a first communication connection and a communication device,
- 7 such that said shunting means prevents at least one leakage signal originating on said first 8 communication connection from propagating to a second communication connection 9 coupled to said communication device.
- 1 7. The system of claim 6, wherein said coupling means further couples said 2 second communication connection to said shunting means.



- 1 8. A system for attenuating leakage signals in a communication system,
- 2 comprising;
- 3 a communication device; and
- 4 a plurality of amplifiers, said plurality of amplifiers coupled between a plurality
- 5 of communication connections and said communication device,
- 6 wherein said plurality of amplifiers have a nearly-zero impedance characteristic such that
- 7 at least one leakage signal originating on a first communication connection coupled to
- 8 said communication device cannot propagate from said first communication connection
- 9 to a second communication connection coupled to said communication device.
- 1 9. The system of claim 8, wherein said communication device time
- 2 multiplexes said plurality of signals onto a single channel.
- 1 10. The system of claim 8, wherein said communication device frequency
- 2 multiplexes said plurality of signals onto a plurality of channels.
- 1 11. The system of claim 8, wherein said communication device is a signal
- 2 multiplexing communication device.